

EXHIBIT I

WHAT IS CLAIMED IS:

1. A composition for coating a substrate, comprising at least one metal-oxide precursor and at least one deposition-rate enhancing material.
2. The composition of claim 1 wherein the substrate is transparent.
3. The composition of claim 1 wherein the substrate is a glass.
4. The composition of claim 1 wherein the substrate is a silicate glass.
5. The composition of claim 1 wherein the metal-oxide precursor comprises a silicon-oxide precursor.
6. The composition of claim 1 wherein the metal-oxide precursor comprises a tin-oxide precursor.
7. The composition of claim 1 wherein the metal-oxide precursor comprises a silicon-oxide precursor and a tin-oxide precursor.
8. The composition of claim 1 comprising a tin-oxide and a phosphorus-oxide precursor.
9. The composition of claim 1 comprising a silicon-oxide, a tin-oxide and a phosphorus-oxide precursor.
10. The composition of claim 1 comprising a silicon-oxide, a tin-oxide and a boron-oxide precursor.
11. The composition of claim 1 comprising a silicon-oxide, a tin-oxide, a phosphorus-oxide, and a boron-oxide precursor.
12. The composition of claim 1 wherein the deposition-rate-enhancing substance is a phosphite.
13. The composition of claim 1 wherein the deposition-rate-enhancing substance is water.
14. The composition of claim 1 wherein the deposition-rate-enhancing substance comprises water and a phosphite.
15. The composition of claim 1 wherein the deposition-rate-enhancing substance comprises water, a borate and a phosphite.

16. The composition of claim 1 wherein the deposition-rate-enhancing substance is a phosphite ester.

17. The composition of claim 1 wherein the deposition-rate-enhancing substance is trimethyl phosphite.

18. The composition of claim 1 wherein the deposition-rate-enhancing substance is triethyl phosphite.

19. The composition of claim 1 wherein the deposition-rate-enhancing substance comprises a mixture of triethyl and trimethyl phosphites.

20. An article obtained by deposition onto a substrate of a coating from metal-oxide coating precursors, comprising at least one deposition-rate-enhancing substance.

21. The article of claim 20 wherein the coating is a film comprising at least a silicon oxide.

22. The article of claim 20 wherein the coating is a film comprising silicon and tin oxides.

23. The article of claim 20 wherein the coating is a film comprising silicon, tin and phosphorus oxides.

24. The article of claim 20 wherein the coating is a film comprising silicon and tin oxides and boron oxide.

25. The article of claim 20 wherein the coating is a film comprising silicon, tin, phosphorus and boron oxides.

26. The article of claim 20 wherein the deposition-rate-enhancing substance is a phosphite.

27. The article of claim 20 wherein the deposition-rate-enhancing substance is a phosphite ester.

28. The article of claim 20 wherein the deposition-rate-enhancing substance is triethyl phosphite.

29. The article of claim 20 wherein the deposition-rate-enhancing substance is trimethyl phosphite.

30. The article of claim 20 wherein the deposition-rate-enhancing substance is water.

31. The article of claim 20 wherein the deposition-rate-enhancing substance is a mixture of MBTC and triethyl phosphite.

32. The article of claim 20 wherein the deposition-rate-enhancing substance is a mixture of MBTC and trimethyl phosphite.

33. The article of claim 20 wherein the coating comprises at least one layer.

34. The article of claim 33 wherein the layer comprises tin and silicon oxides.

35. The article of claim 33 wherein the layer comprises tin, silicon, and phosphorus oxides.

36. The article of claim 33 wherein the layer comprises tin, silicon, phosphorus and boron oxides.

37. The article of claim 33 having at least a first and a second layer.

38. The article of claim 33 wherein the second layer comprises a mixture of tin and silicon oxides and fluorine.

39. The article of claim 33 comprising a plurality of layers.

40. The article of claim 33 comprising a silicon oxide and a tin oxide.

41. The article of claim 33 comprising a tin oxide and a phosphorus oxide.

42. The article of claim 33 comprising a silicon oxide, a tin oxide, and a phosphorus oxide.

43. The article of claim 33 comprising a silicon oxide, a tin oxide, a phosphorus oxide and a boron oxide.

44. The article of claim 33 comprising a plurality of layers, each layer having a separate refractive index.

45. The article of claim 33 comprising a plurality of layers, each layer having a concentration of a silicon oxide and a tin oxide different from an adjacent layer.

46. The article of claim 37 wherein the first layer has a refractive index which changes continuously between the substrate and the second layer.

47. The article of claim 37 wherein the second layer comprises a doped tin oxide.

48. The article of claim 37 wherein the second layer is deposited from a precursor mixture comprising MBTC and a fluorine-containing material.

49. The article of claim 37 wherein the first layer is deposited from a precursor mixture comprising MBTC and TEOS in the presence of triethyl phosphite.

~~50. The article of claim 37 wherein the first layer is deposited from a~~
precursor mixture comprising MBTC and TEOS in the presence of trimethyl phosphite.